

# United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/829,549 04/10/2001		James T. English	UMO 1521.1	8198
321	7590 11/26/2003		EXAMI	NER
	POWERS LEAVITT AN	WESSENDORF, TERESA D		
ONE METROPOLITAN SQUARE 16TH FLOOR ST LOUIS, MO 63102			ART UNIT	PAPER NUMBER
			1639	12
			DATE MAILED: 11/26/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

6-			<u> </u>				
•		Application	on No.	Applicant(s)			
Office Action Summary		09/829,54	19	ENGLISH ET AL.			
		Examiner		Art Unit			
		T. D. Wes	sendorf	1639			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE I - Externafter - If the - If NO - Failu - Any	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION misions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by statically received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	I.  1.136(a). In no even  ply within the state  d will apply and wi  ute, cause the app	ent, however, may a reply be timutory minimum of thirty (30) days II expire SIX (6) MONTHS from lication to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
1)⊠ Responsive to communication(s) filed on <u>08 September 2003</u> .							
2a)□	This action is <b>FINAL</b> . 2b) This action is non-final.						
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
5)□ 6)⊠ 7)□	4)  Claim(s) 1-31 is/are pending in the application.  4a) Of the above claim(s) 10-31 is/are withdrawn from consideration.  5)  Claim(s) is/are allowed.  6)  Claim(s) 1-9 is/are rejected.  7)  Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.  Application Papers							
	·						
,—	The specification is objected to by the Exami The drawing(s) filed on is/are: a)  a		objected to by the F	- - - - - - - - - - - - - - - - - - -			
, , , ,	Applicant may not request that any objection to the						
	Replacement drawing sheet(s) including the corre	ection is requir	ed if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. §§ 119 and 120							
a) 13)□ / s 3 a 14)□ /	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure See the attached detailed Office action for a lice a specific reference was included in the first sentence of the priority document is made of a claim for dome as precipitation of the foreign language processes and the priority document is made of a claim for dome afterence was included in the first sentence of	nts have bee ints have bee iority docume au (PCT Rul st of the certi stic priority un first sentence provisional ap stic priority un	n received. n received in Application received in Application to the the thickness of the specification or application has been received as 5 U.S.C. § 119(expected of the specification or application has been received of the specification or application has been received of the specification of the specification of the specification has been received of the specification has been received of the specification has been received on the specification of the specification has been received on the specification of the specification of the specification of the specification has been received on the specification of the specif	on No  ed in this National Stage  ed.  e) (to a provisional application) in an Application Data Sheet.  eived.  and/or 121 since a specific			
Attachmen			_				
2) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s	) <u> </u>		(PTO-413) Paper No(s) · ratent Application (PTO-152)			

Art Unit: 1639

#### DETAILED ACTION

#### Status of Claims

Claims 1-31 are pending.

Claims 10-31 are withdrawn from consideration as being drawn to non-elected invention.

Claims 1-9 are under examination.

#### Specification

The amendments to the specification obviate the various objections as set forth in the last Office action.

## Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-9 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention for reasons set forth in the last Office action.

Art Unit: 1639

### Response to Arguments

In view of the amendments to the claims and applicants' arguments the rejection under this statute has been overcome.

# Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

A).-C). In view of the amendments to the claims and applicants' arguments the rejections under these paragraphs has been overcome.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 09/829,549

Art Unit: 1639

Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Massey (WO 99/51780) for reasons advanced in the last office action.

#### Response to Arguments

It is argued that Massey et al discloses that a target cell is a tumor cell or a pathogen or protozoan-infected cell. It is further argued that the peptides identified by the method of claim 1 are encoded by random oligonucleotides expressed by a vector, which is capable of expressing said peptides on its surface and transfecting a host cell. In contrast, Massey et al require that the peptide expression library be expressed on an immunogenic carrier in order to be able to generate an immunological response against the target cell. In addition, It is additionally argued that the anti-fungal peptides identified by the method of claim 1 inhibits fungal growth/proliferation by a direct interaction, whereas in Massey et al the inhibition or removal of the target cell occurs through an immunological response. Thus, Massey, is argued, to teach away from the claimed invention.

In response, claim 4 of the Massey reference specifically recites a fungus. Furthermore, the carrier described by Massey is but the vector as claimed, e.g., phage except termed as a

Art Unit: 1639

carrier. It is well known in the art that phage functions similarly as a carrier for the peptide. Whether the mechanism of growth inhibition of fungus from immunological response is by indirect interaction as taught by Massey is immaterial. Massey discloses or achieves the same purpose as that claimed, i.e., to inhibit growth of fungus. The claims, which read on non-Ig peptides, would read on antibodies, which also raises immunological response.

The rejection with respect to Gyuris reference has been obviated with applicants' arguments.

### Claim Rejections - 35 USC § 102

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-4 and 6-9 are rejected under 35 U.S.C. 102(a) as being anticipated by Gough et al (Jrnl. Of Immunological Methods, 1999).

Gough et al discloses at page 98, col. 1 up to page 105 a method for generating a peptide (antibody) from a diverse library of antibodies fused to a vector, phage and panning against the specific plant fungus, Phytophthora infestans. See the Materials and Method at page 98 which describes the specifics of the method. Accordingly, the specific method step

Art Unit: 1639

of Gough using specific antibody libraries against a specific fungus, the Phytophthora, fully meets the broad claimed methods reciting broadly a fungus and non-Ig peptide library.

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to T. D. Wessendorf whose telephone number is (703) 308-3967. The examiner can normally be reached on Flexitime.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Wang can be reached on (703) 306-3217. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7924 for regular communications and (703) 308-7924 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

T. D. Wessendorf Primary Examiner Art Unit 1639

tdw November 25, 2003